

FIG. 1: Routing between Networks

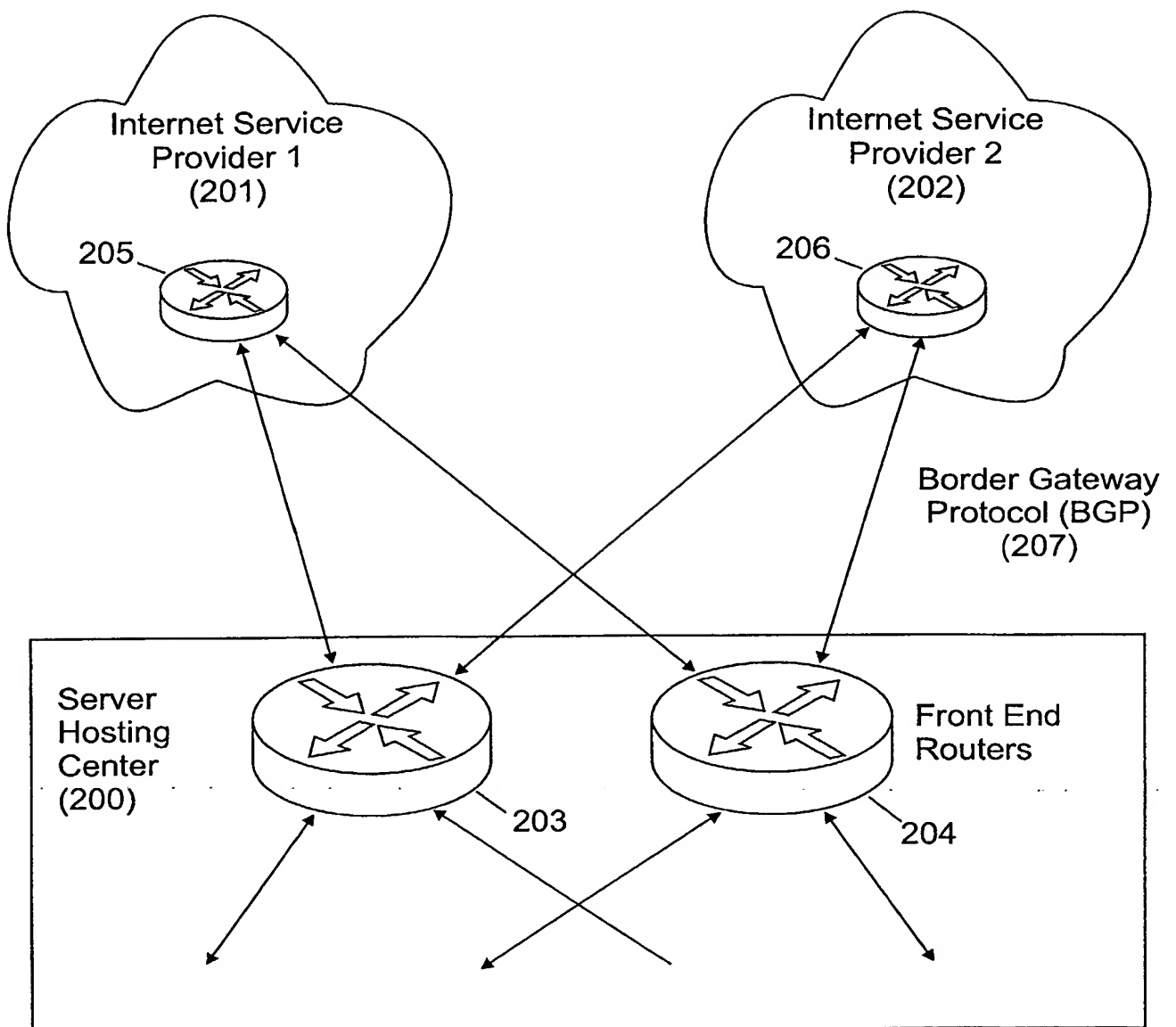


FIG. 2: Routing between a Server Hosting Center and Several Internet Service Providers

3/11

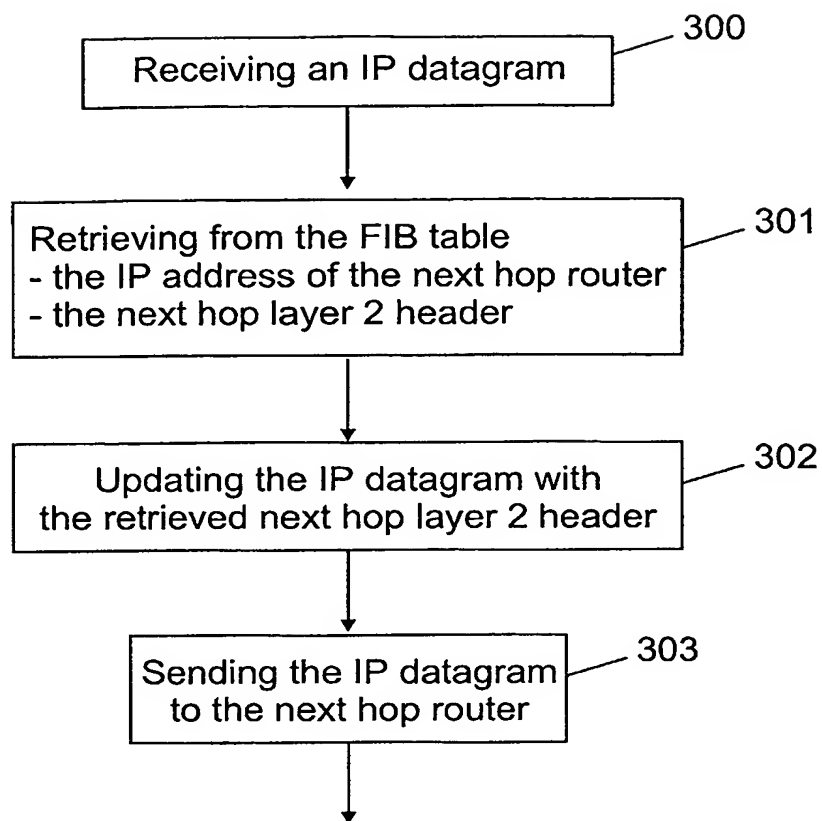


FIG. 3: Routing According to Prior Art

Routing Table
(400)

Destination Network 1	NH-102 NH-103 NH-104	Cost = 1 + 1 = 2 Cost = 2 + 1 = 3 Cost = 3 + 1 = 4
Destination Network 2	NH-102 NH-104	Cost = 1 + 1 = 2 Cost = 3 + 1 = 4
Destination Network 3	NH-104	Cost = 3 + 1 = 4

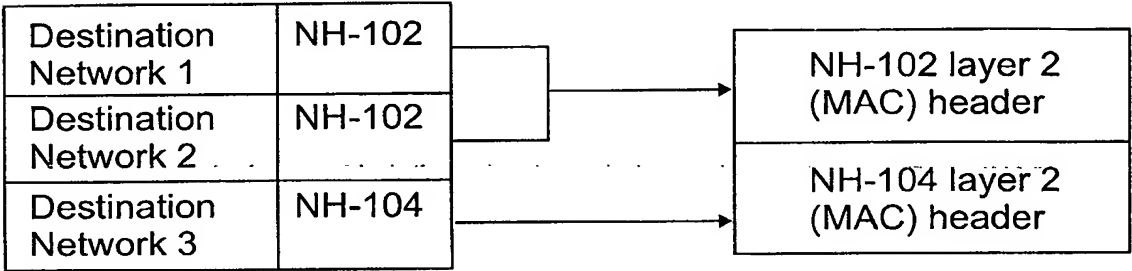
(401)

(402)

(403)

FIB
(404)

NH Layer 2 Headers



(405)

(406)

(407)

FIG. 4: Standard Routing Table and Forwarding Information Base According to Prior Art

5/11

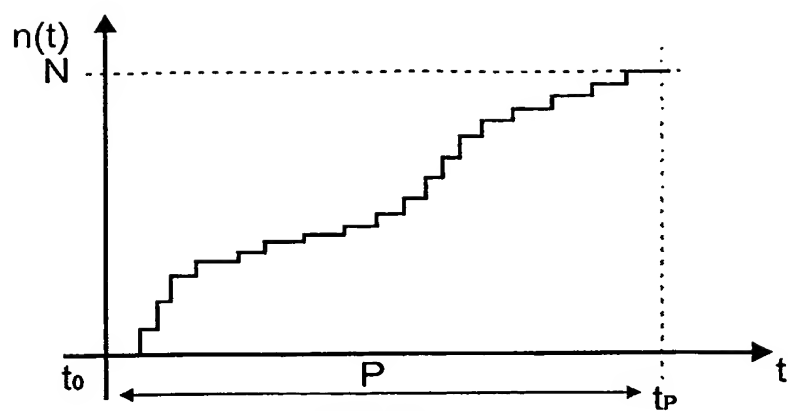


FIG. 5a

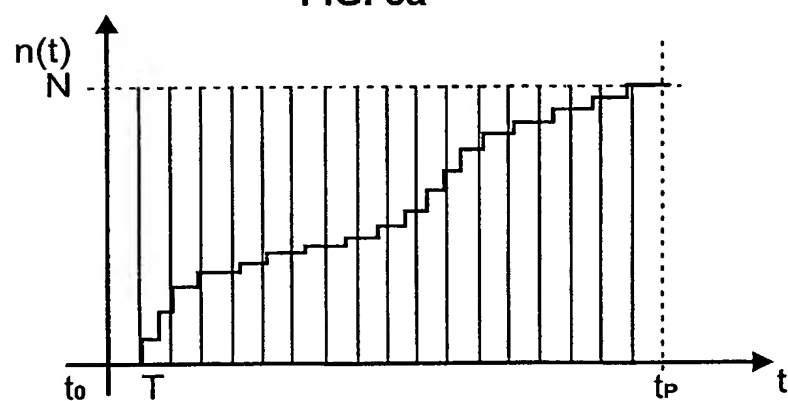


FIG. 5b

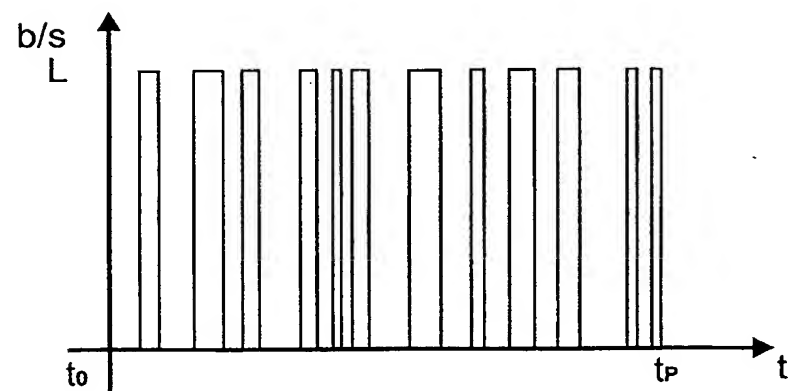


FIG. 5c

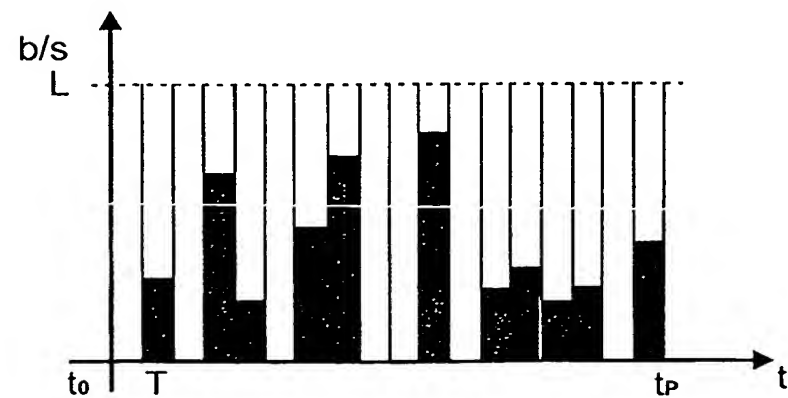


FIG. 5d

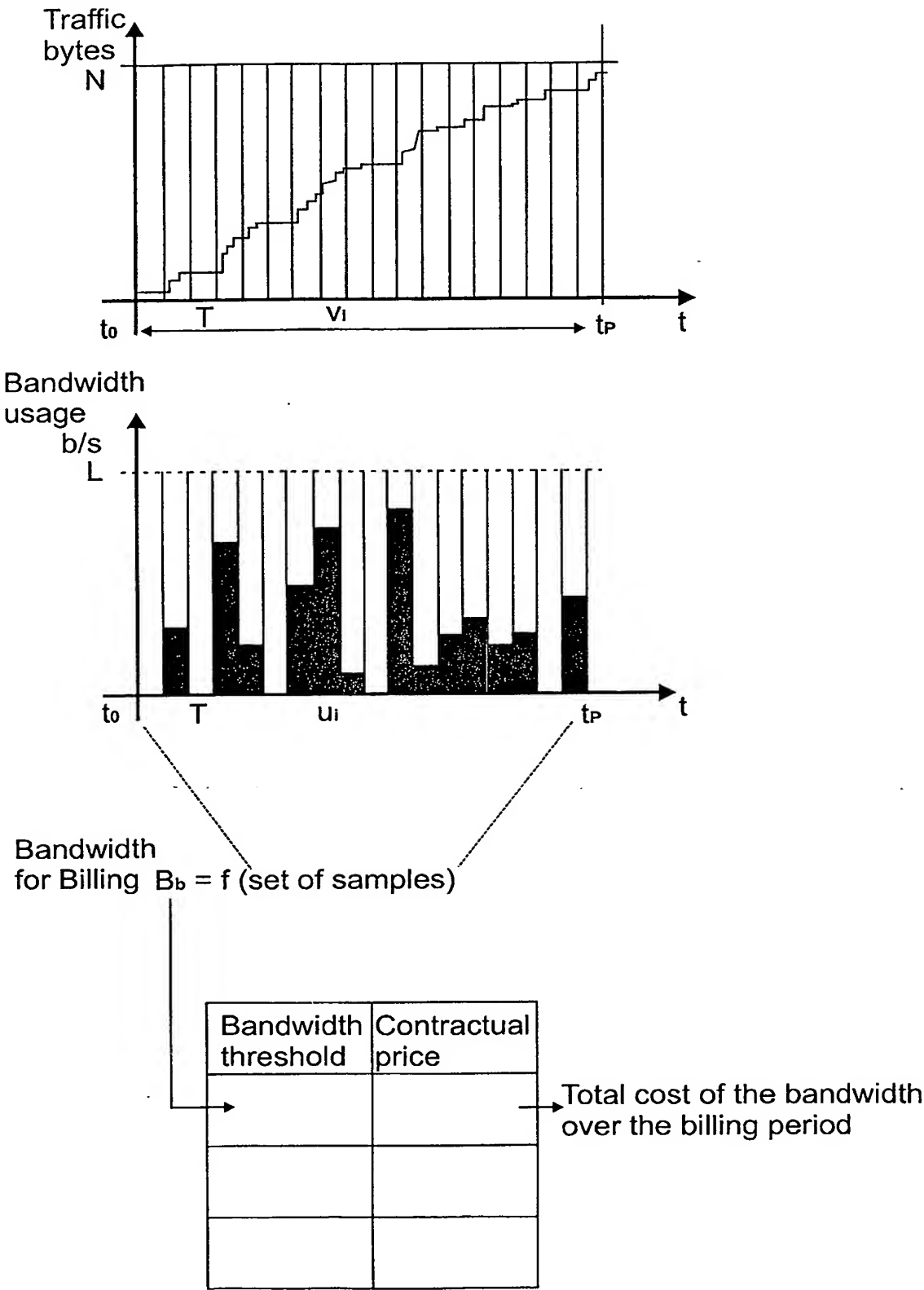


FIG. 6: Algorithm for Billing Bandwidth

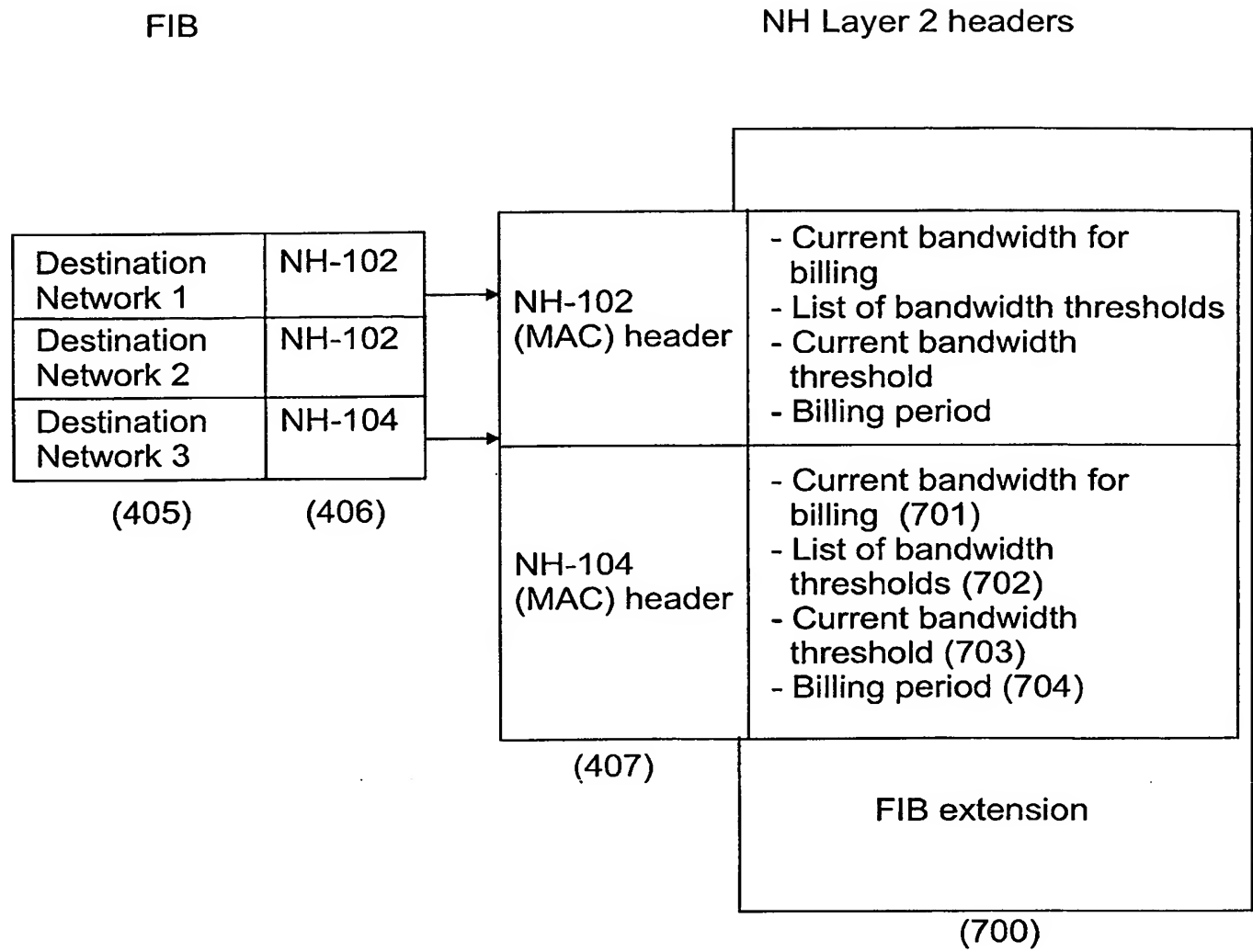


FIG. 7: Forwarding Information Base Extension According to the Present Invention

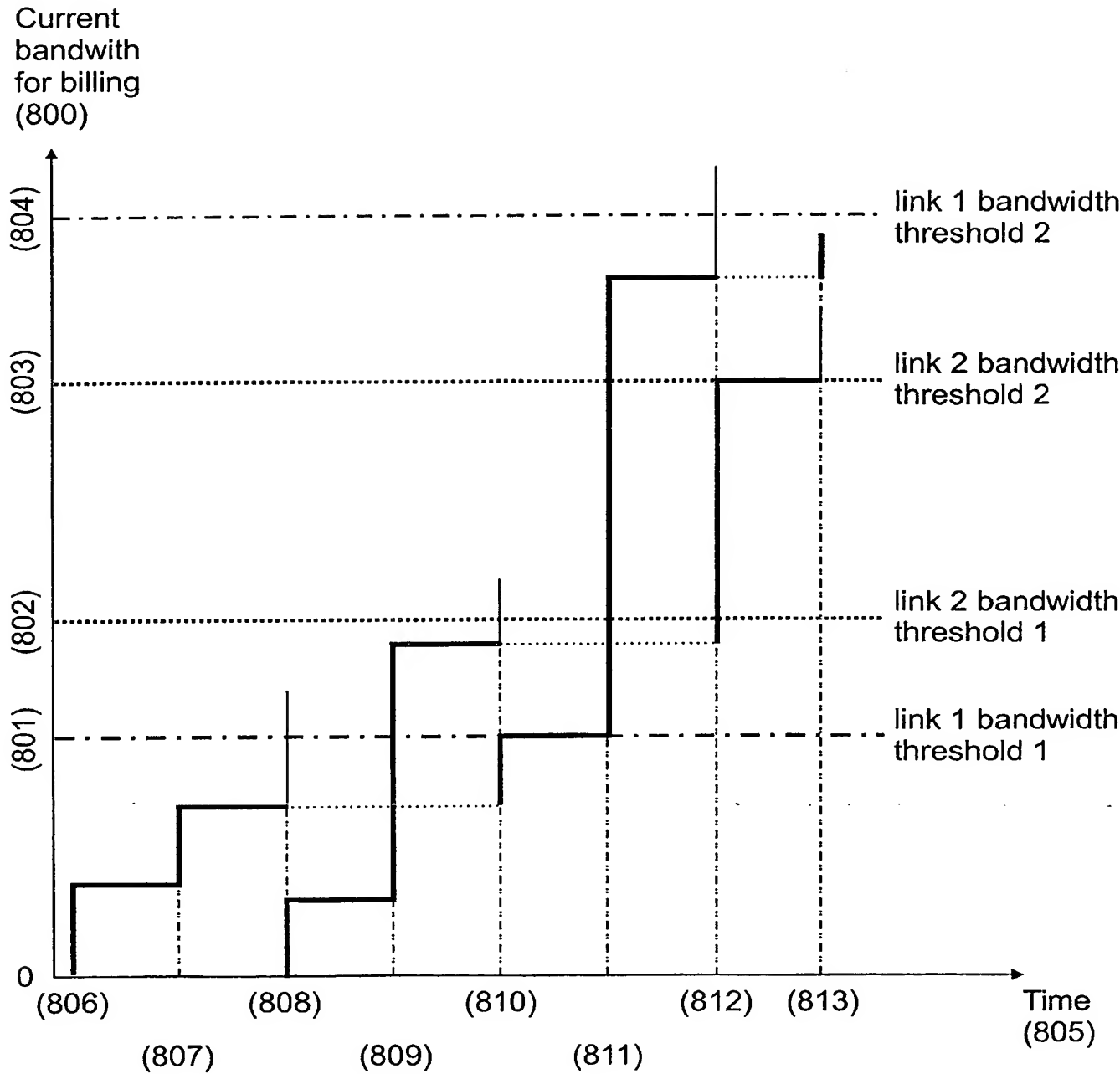


FIG. 8: Current Bandwidth for Billing per Link as a Function of the Time

9/11

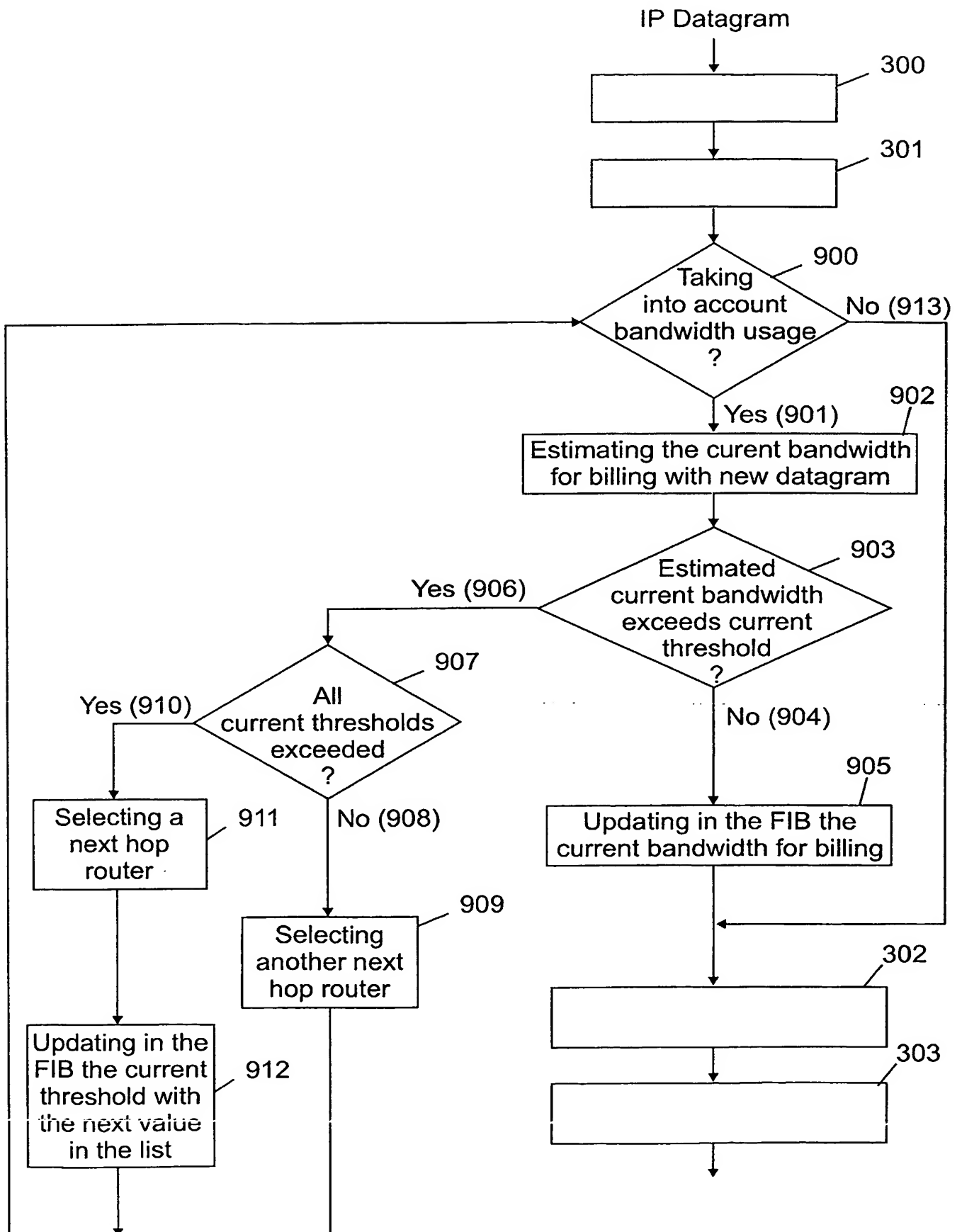


FIG. 9: Link Selection Algorithm

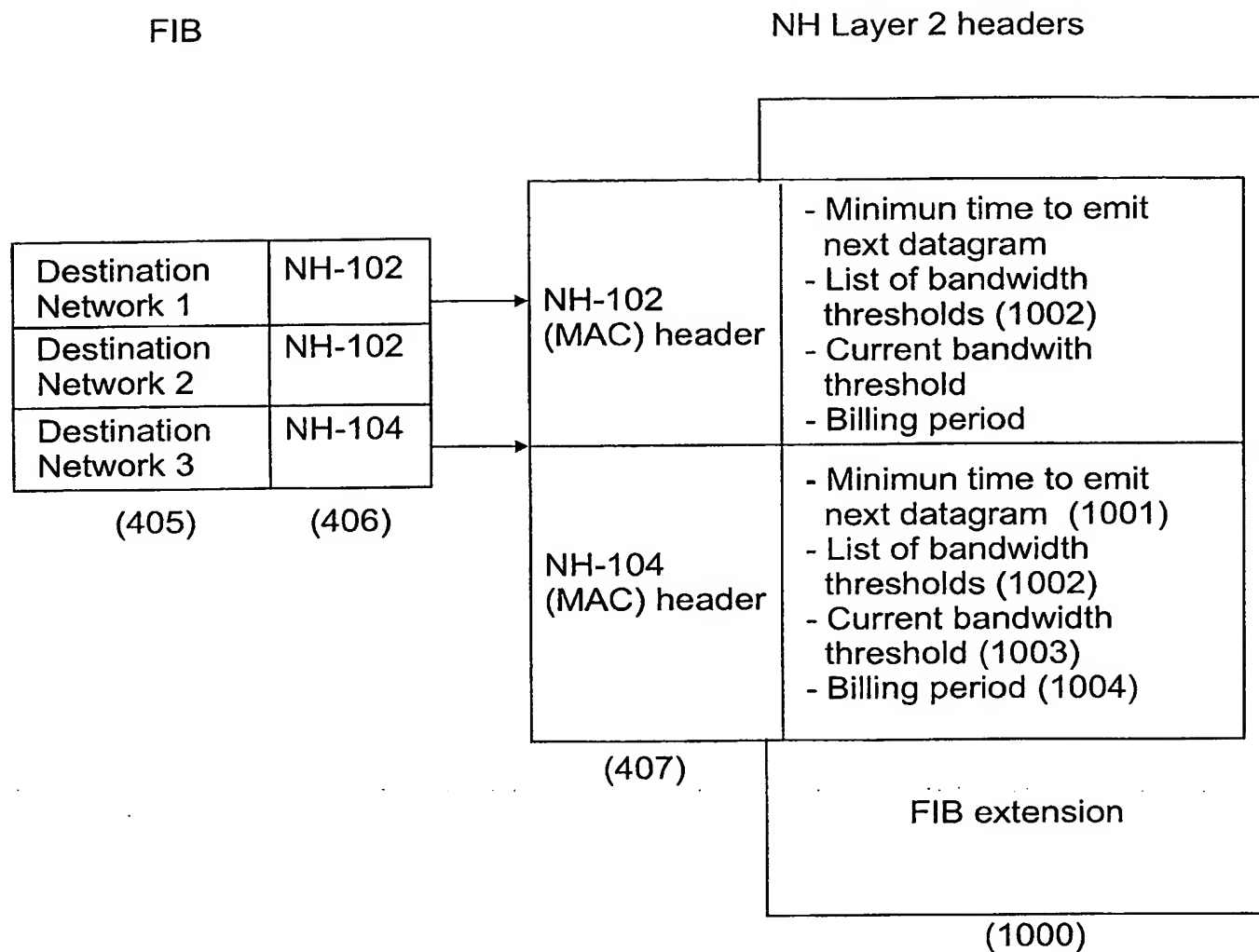


FIG. 10: Forwarding Information Base Extension According to Particular Embodiment

11/11

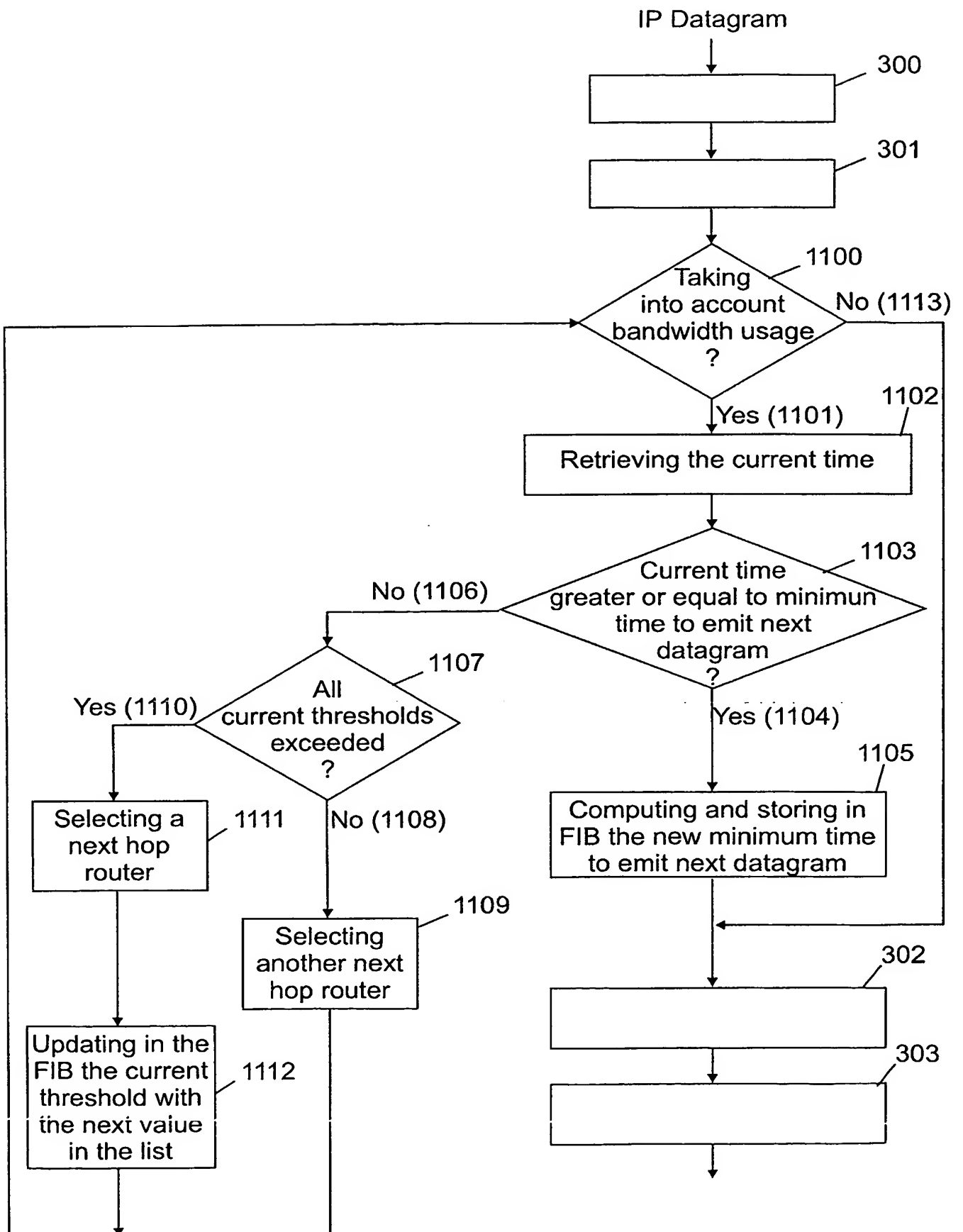


FIG. 11: Link Selection Algorithm According to a Particular Embodiment